



Introduction & NSF Overview

March 19-20, 2007

***Hosted by: Oklahoma State University
Oklahoma City, Oklahoma***

NSF Regional Grants Conference



Ask Early, Ask Often!

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Main Topics

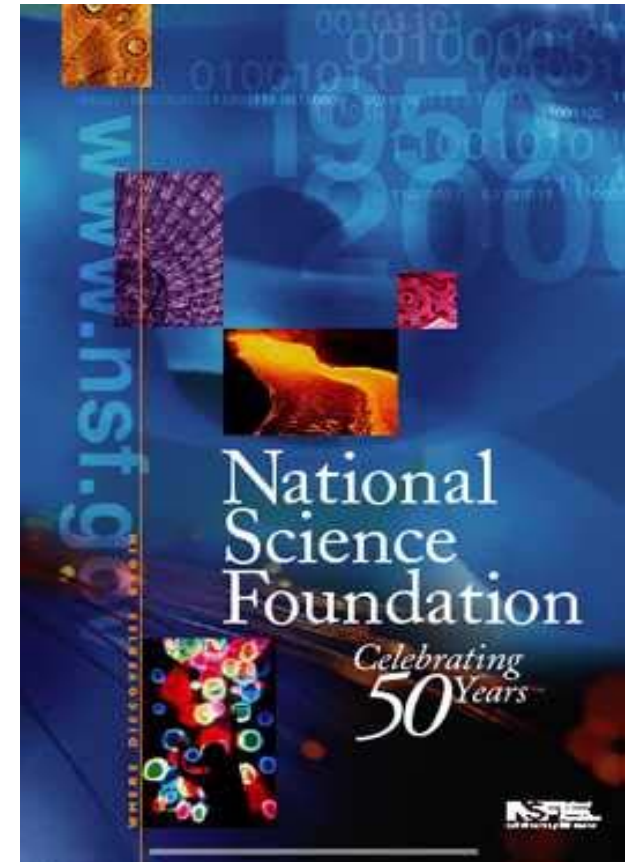
- Origins of NSF
- The National Science Foundation
- NSF FY 2007 Budget: Context & Outcome
- The NSF FY 2008 Budget Request
 - NSF Initiatives
- Current Proposal, Award and Funding Trends

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Origins of NSF

- “The Government should accept new responsibilities for promoting the flow of scientific knowledge and the development of scientific talent in our youth.”
 - Science, The Endless Frontier, 1945
- 1947: Congress Approves, Truman Vetoes: Agencies created in the meantime
- 1950: Compromise Bill Approved & Signed by Truman



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NSF Act of 1950

- “To promote the progress of science...”
- NSB (24) and 1 Director, appointed by the President
- Encourage & develop a national policy for the promotion of basic research and education in the math, physical, medical, biological, engineering and other sciences
- Initiate & support basic scientific research in the sciences
- Evaluate the science research programs undertaken by agencies of the Federal government
- Provide information for S&E policy formation

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NSF Vision

**Advancing discovery,
innovation and education
beyond the frontiers of current
knowledge, and empowering
future generations in science
and engineering.**

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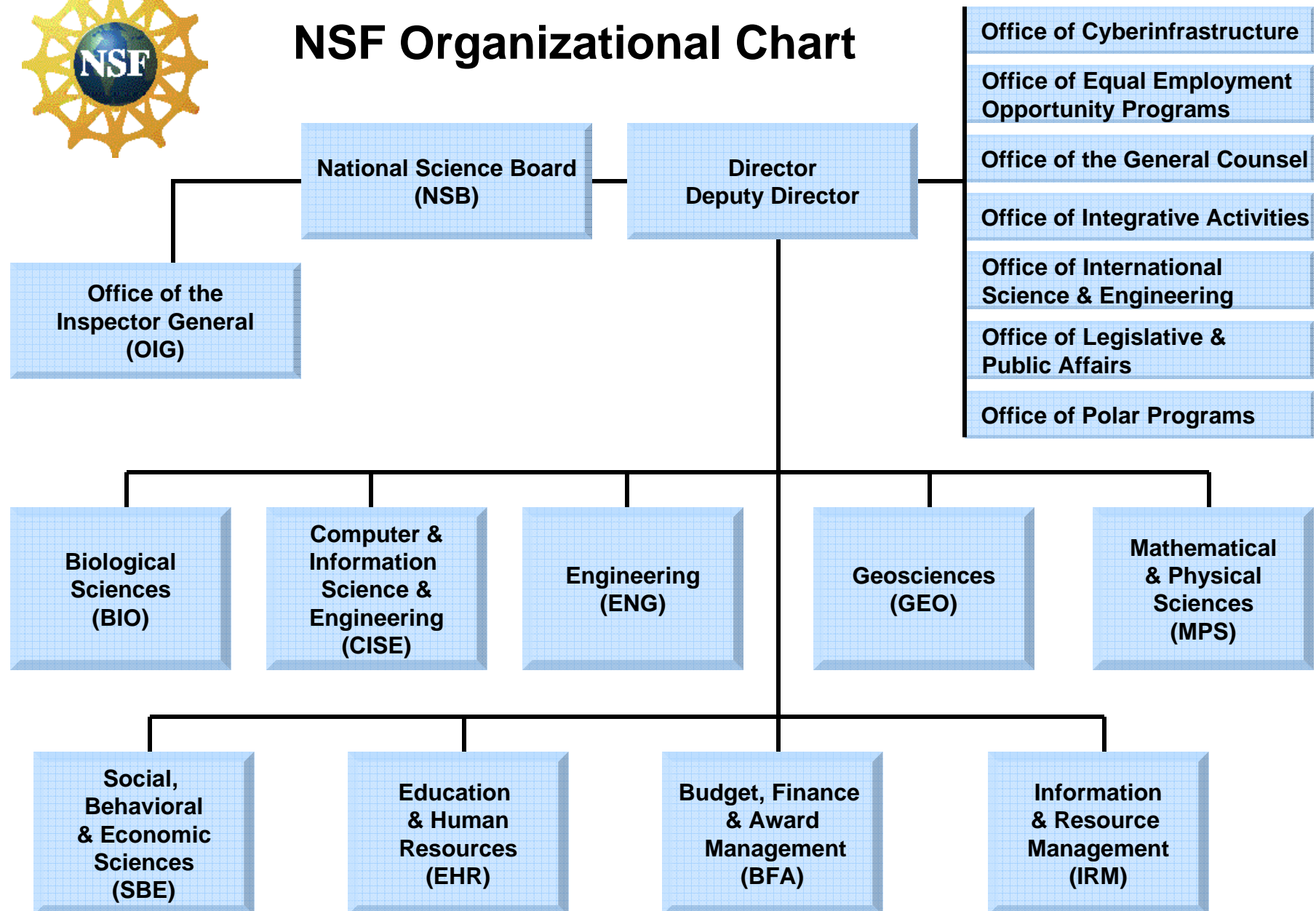
NSF in a Nutshell

- Independent Agency
- Supports basic research & education
- Uses grant mechanism
- Low overhead; highly automated
- Discipline-based structure
- Cross-disciplinary mechanisms
- Use of Rotators/IPAs
- National Science Board

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NSF Organizational Chart





NSF: Recent Personnel Changes

- Dr. Jeanette Wing named Assistant Director of the Directorate for Computer and Information Science and Engineering (CISE)
- Dr. Tony F. Chan named Assistant Director for Mathematics and Physical Sciences (MPS)
- Dr. Cora B. Marrett named Assistant Director for Education and Human Resources (EHR)
- Dr. Daniel Atkins named Director of the Office of Cyberinfrastructure
- Search underway for GEO Assistant Director
- Karen Tiplady named Director, Division of Grants and Agreements (DGA) in BFA
- David Elizalde named Director, Division of Acquisition and Cooperative Support (DACCS) in the Office of Budget, Finance, & Award Management (BFA)
- Nat Pitts leading EPSCoR Office while search underway (EPSCoR moved to the Office of the Director)

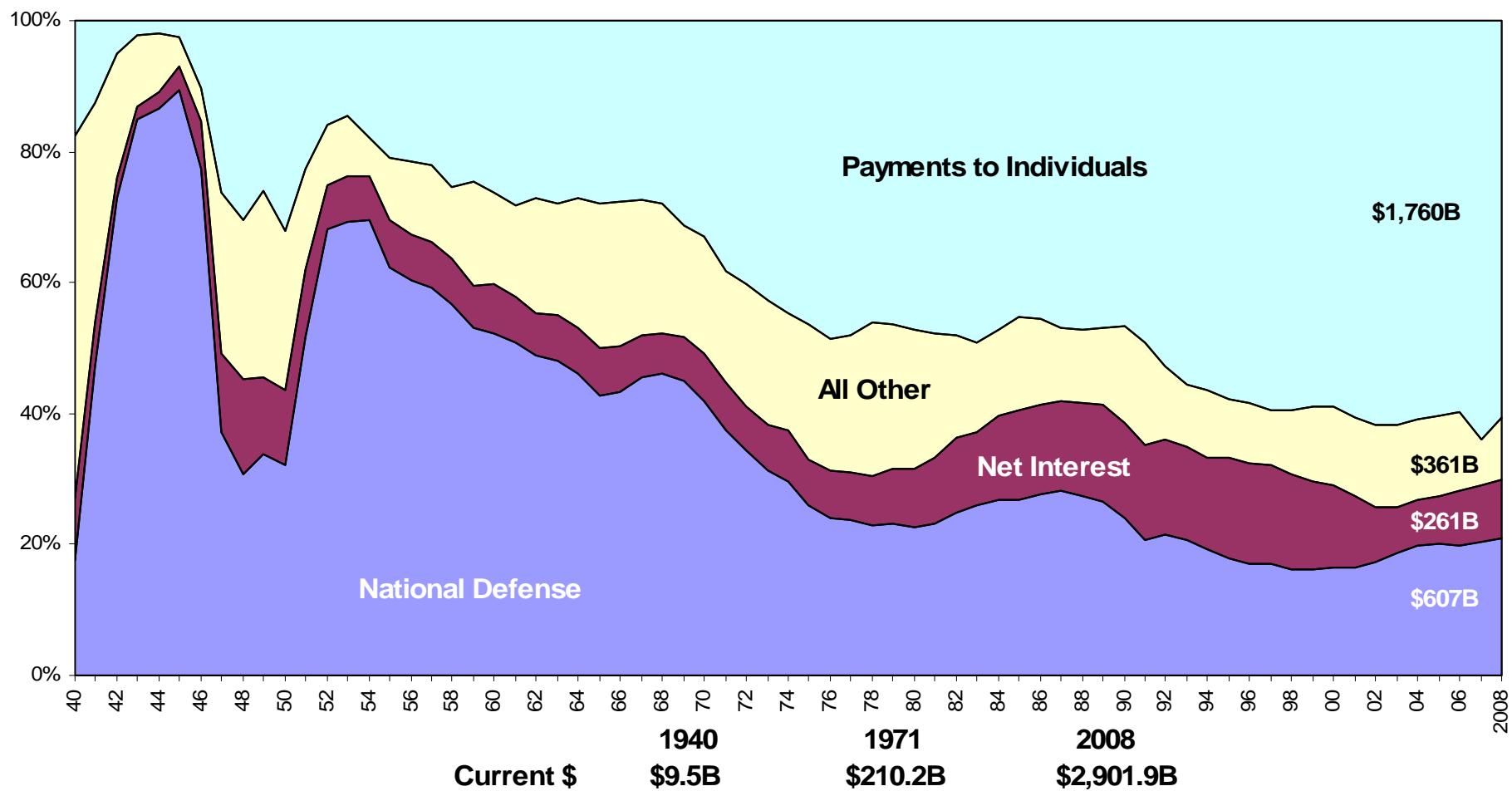


FY 2007 Budget Context & Outcome

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Percentage Composition of Federal Government Outlays

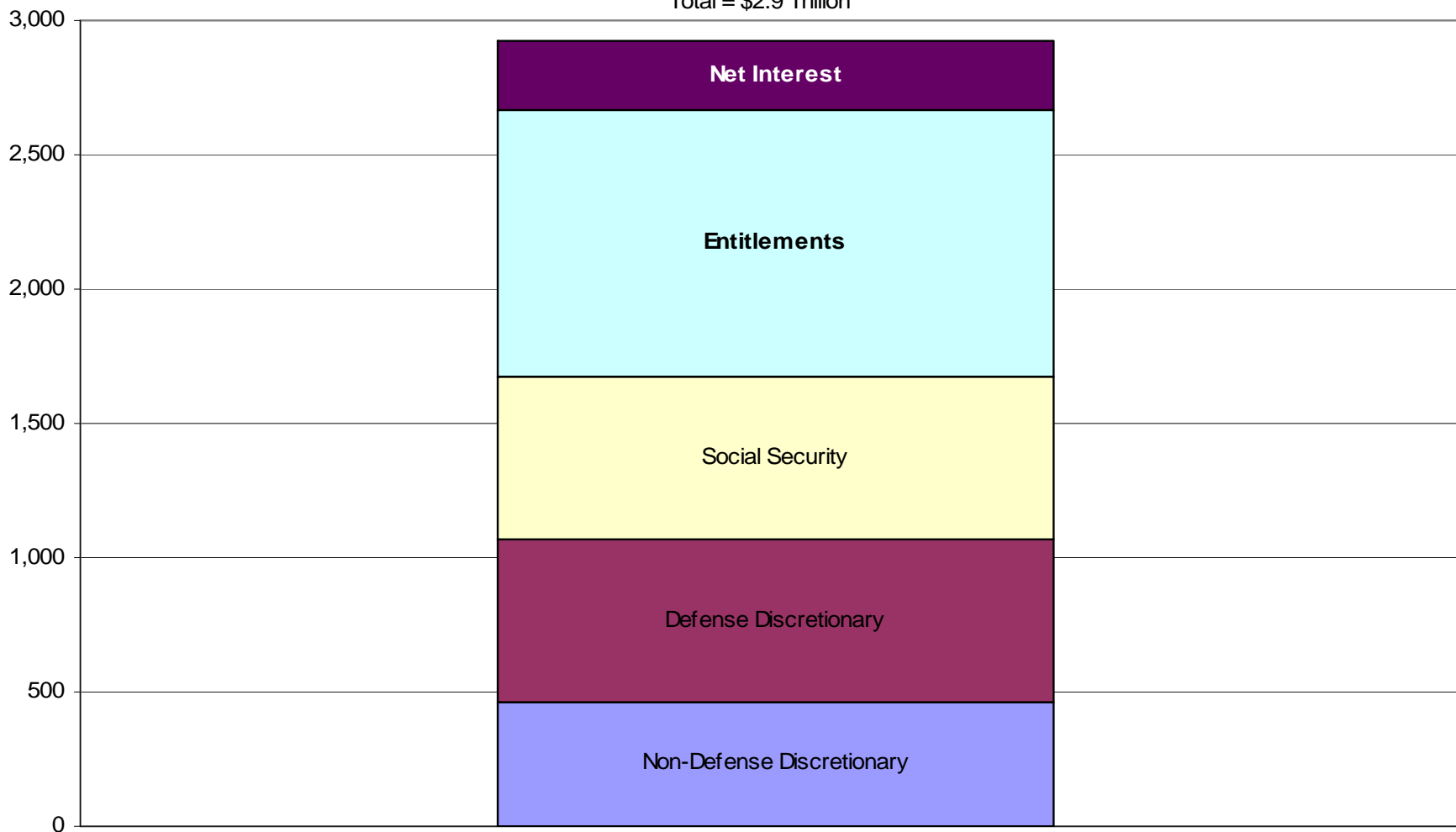




\$ in Billions

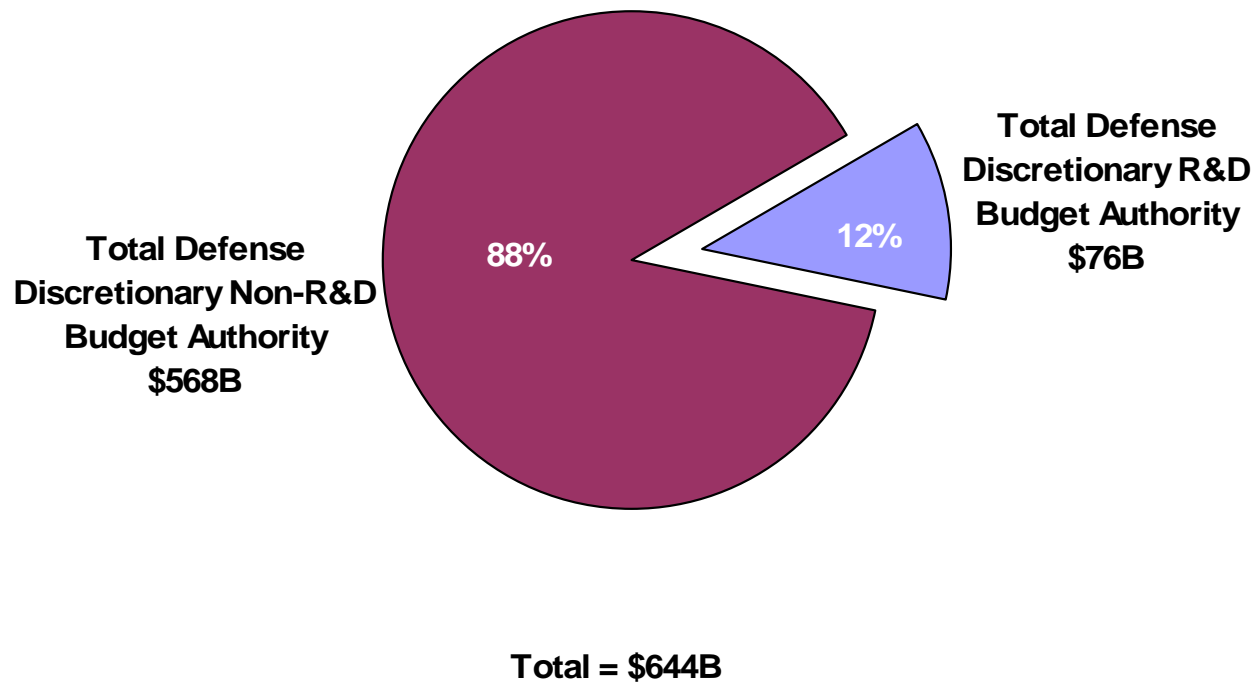
Federal Spending - FY 2008

Total = \$2.9 Trillion



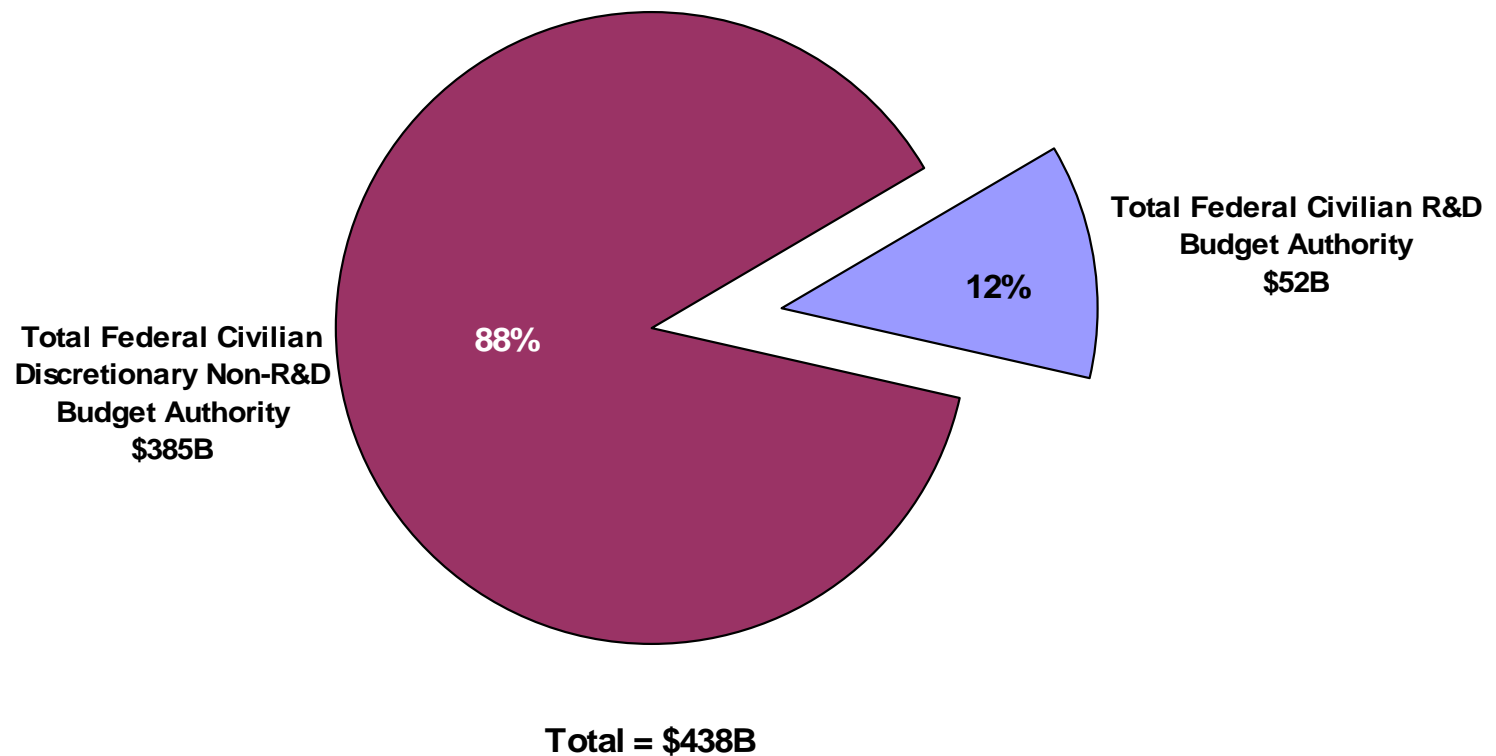


Defense R&D as a Percent of Total Defense Discretionary Budget Authority – FY 2008





Federal Civilian R&D as a Percent of Total Civilian Discretionary Budget Authority -- FY 2008





NSF Funding by Account

(Dollars in Millions)

Account	FY2006 Actual	FY2007 C.R.	Change
Research & Related Activities	4,449	4766	366
Education & Human Resources	700	700	0
Major Research Equipment & Facilities Construction	234	234	0
Salaries & Expenses	247	248	1
National Science Board	4	4	0
Office of the Inspector General	11	11	0
Total, NSF	5,645	5963	367

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MREFC Projects in FY 2007

- Ongoing
 - EarthScope
 - IceCube
 - Scientific Ocean Drilling Vessel
 - South Pole Station Modernization
 - ALMA
- New Projects to be Funded in FY 2007
 - Alaska Region Research Vessel
 - Ocean Observatories Initiative
 - National Ecological Observatory Network

FY 2008 Budget Request

2008
BUDGET
REQUEST

\$6.43 billion

Increase over FY 2007 Request:

\$409 million, 6.8%



*FY 2008 Budget Request by
Appropriations Account (millions)*

2008
B U D G E T
R E Q U E S T

Appropriations Account	FY 2008 Request	Change from FY 2007 Request
Research & Related Activities	\$5,131.69	\$365.74 (7.7%)
Education & Human Resources ¹	\$750.60	\$34.38 (4.8%)
Major Research Equipment & Facilities Construction	\$244.74	\$4.29 (1.8%)
Agency Operations & Award Management	\$285.59	\$3.77 (1.3%)
National Science Board	\$4.03	\$0.12 (3.1%)
Inspector General	\$12.35	\$0.49 (4.1%)
TOTAL, NSF	\$6,429.00	\$408.79 (6.8%)

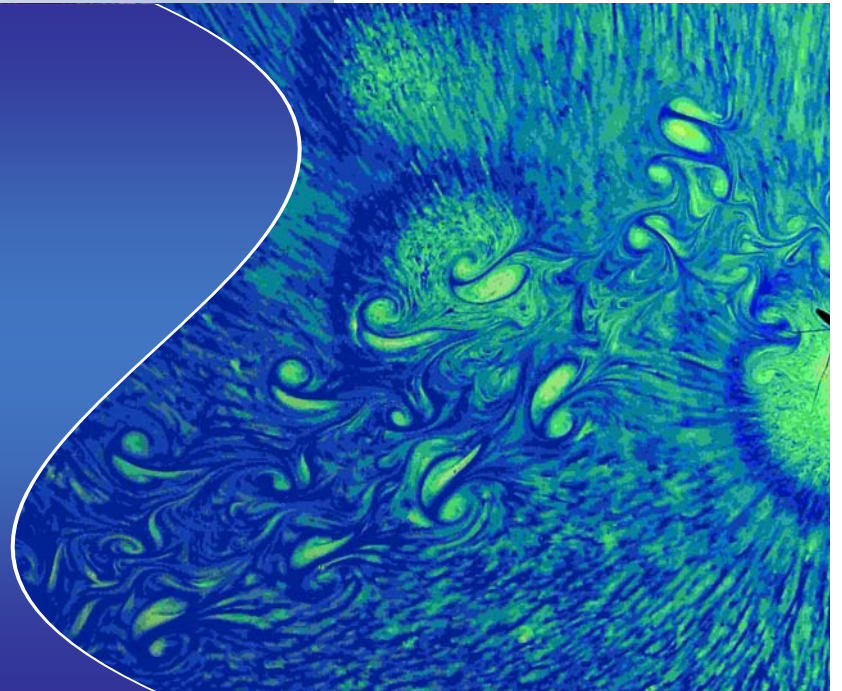
Totals may not add due to rounding.

¹ Funding for EPSCoR is moved to R&RA in FY 2008.

FY 2008 Budget Priorities

2008
BUDGET
REQUEST

- *Discovery Research for Innovation*
- *Preparing the Workforce for the 21st Century*
- *Transformational Facilities and Infrastructure*
- *International Polar Year Leadership*
- *Stewardship*



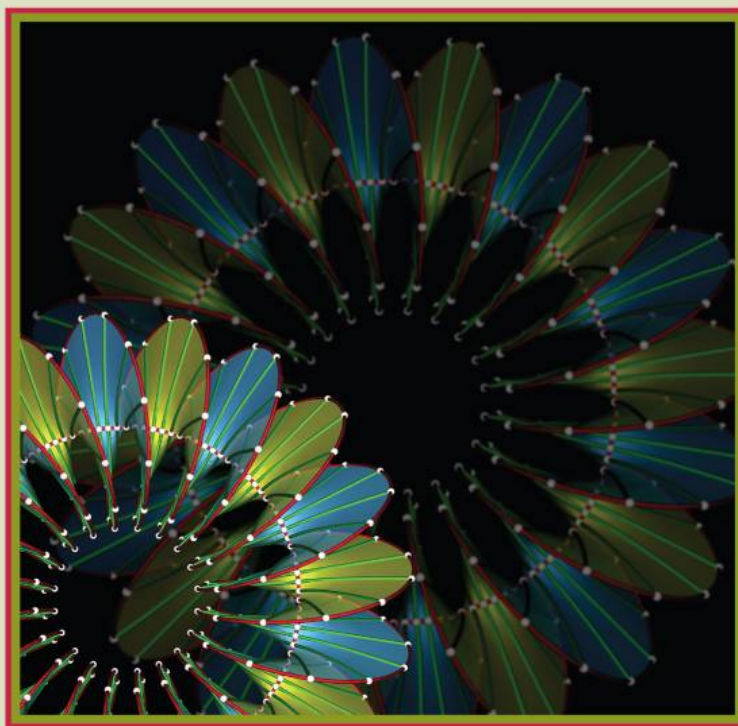
2008

BUDGET
REQUEST



National Science Foundation

INVESTING IN AMERICA'S FUTURE



STRATEGIC PLAN

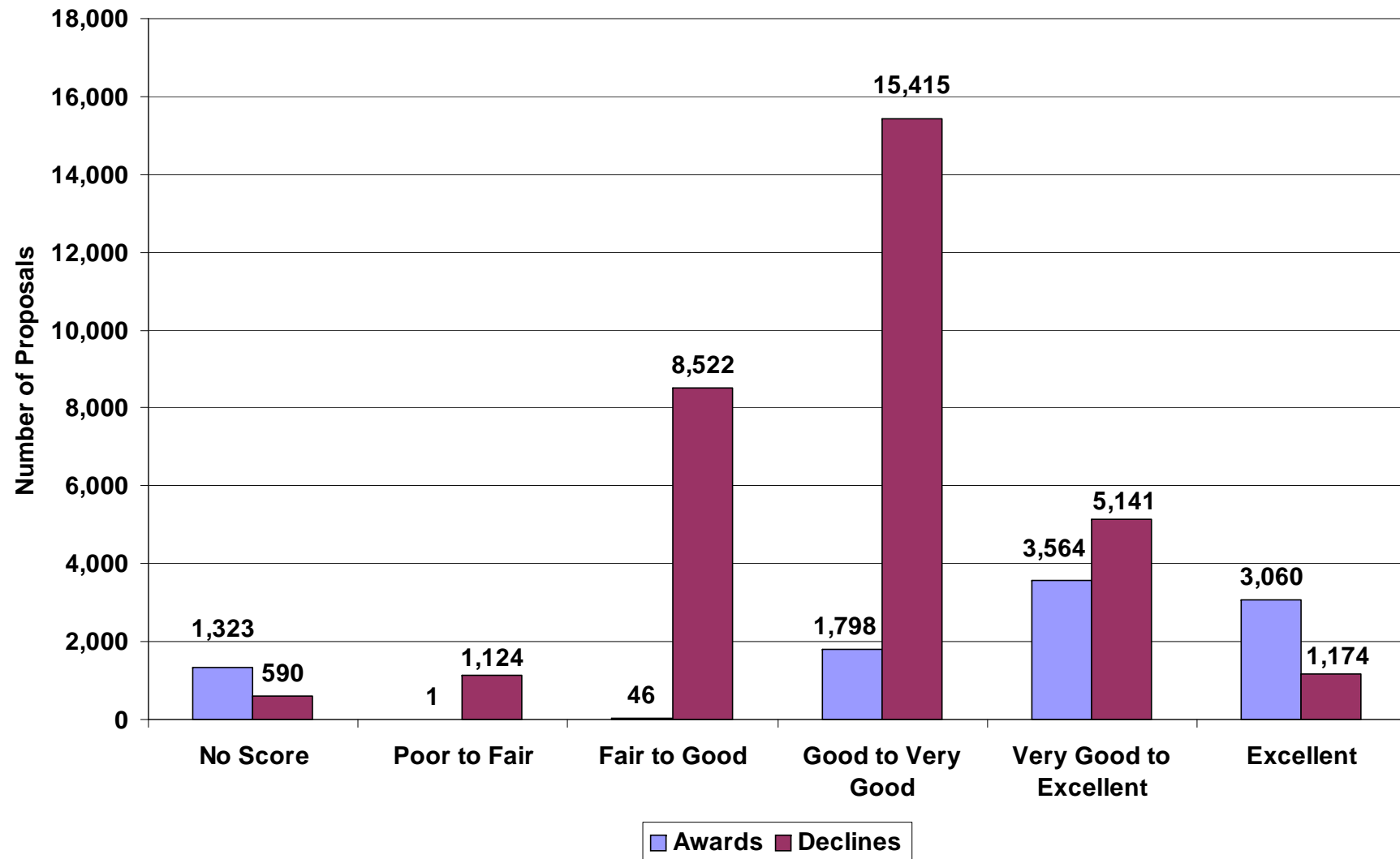
FY 2006-2011



Current Proposal, Award & Funding Trends

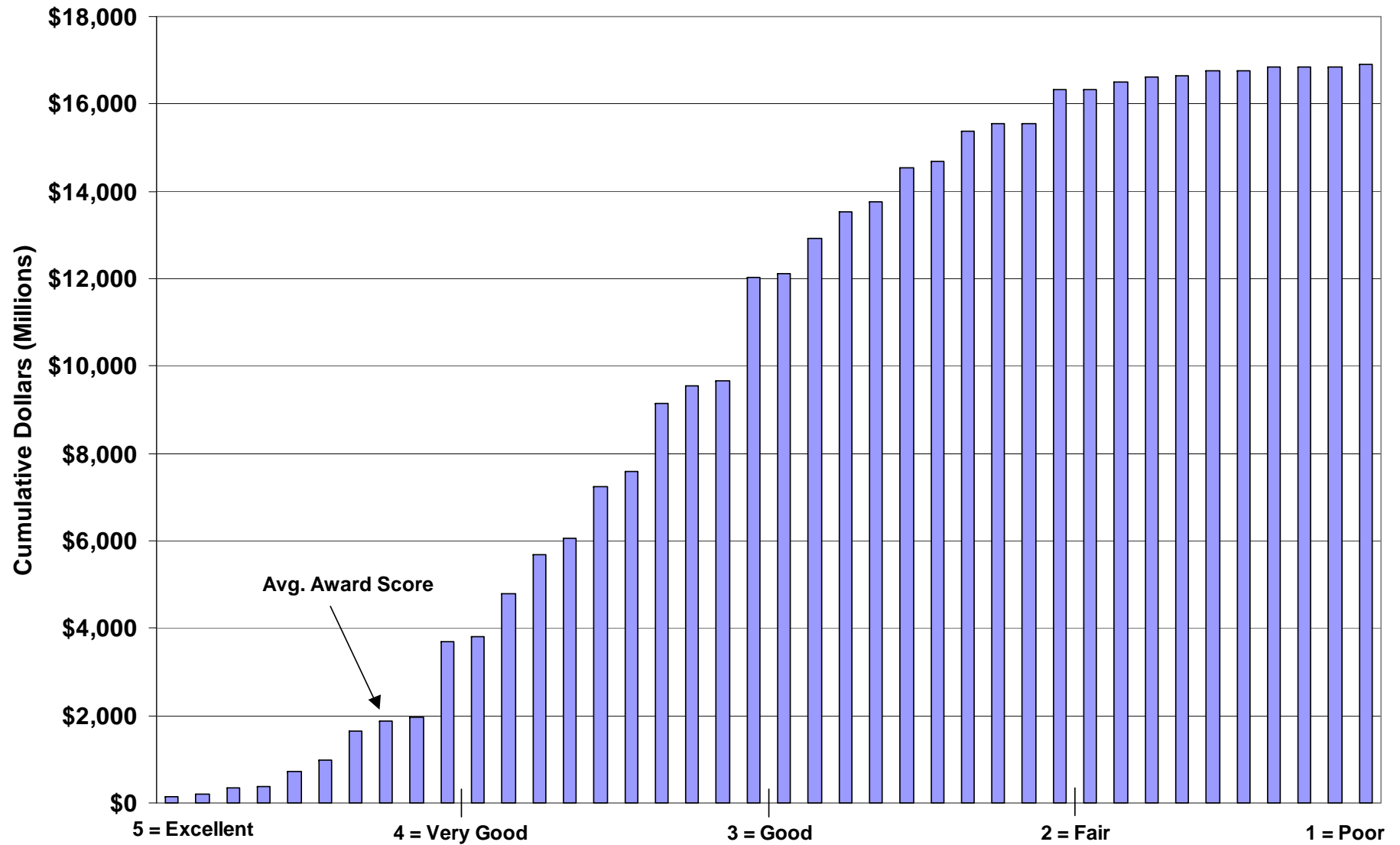
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Distribution of Average Reviewer Ratings FY 2005

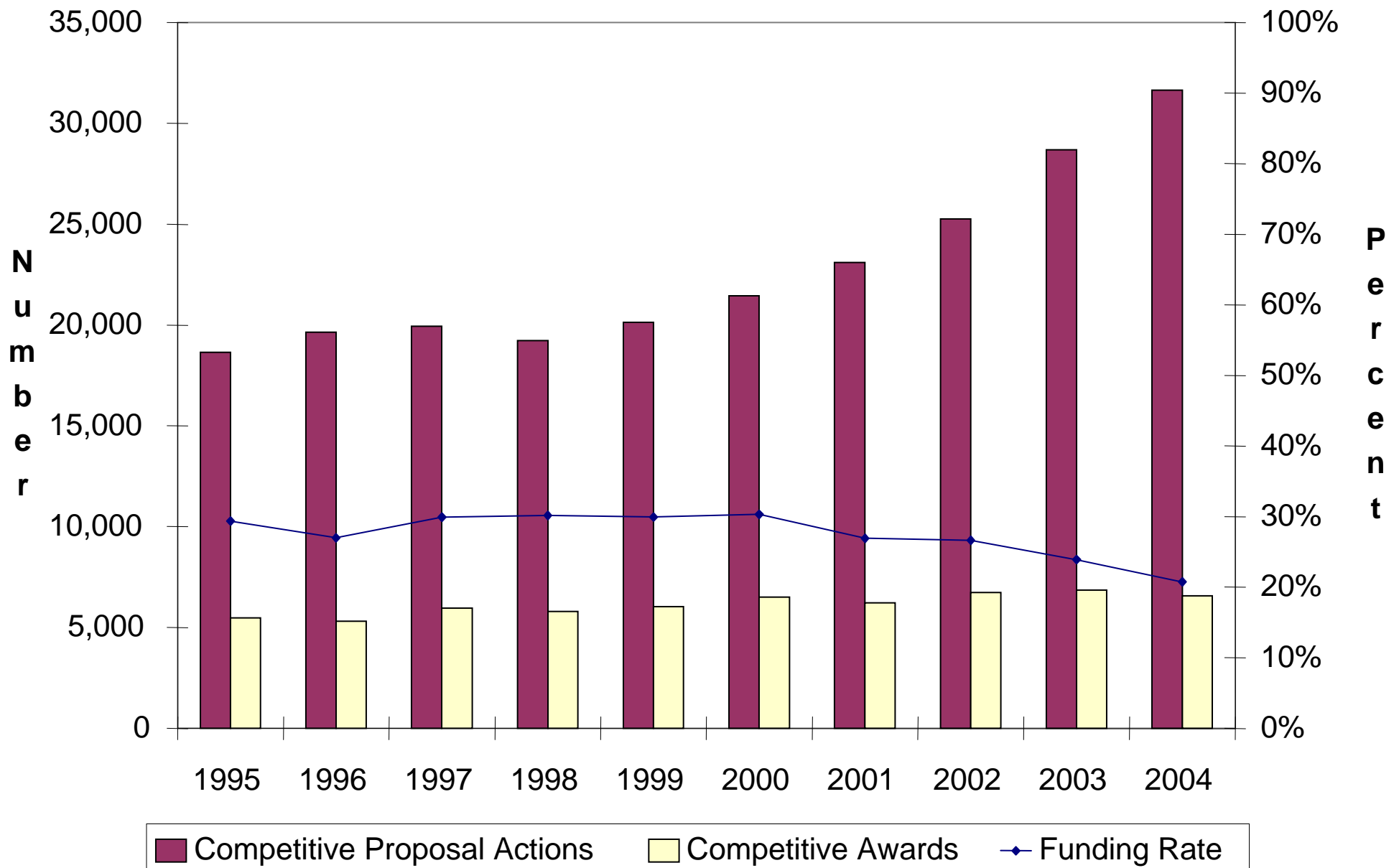


Number of Proposals: 31,966 Declines, 9,792 Awards

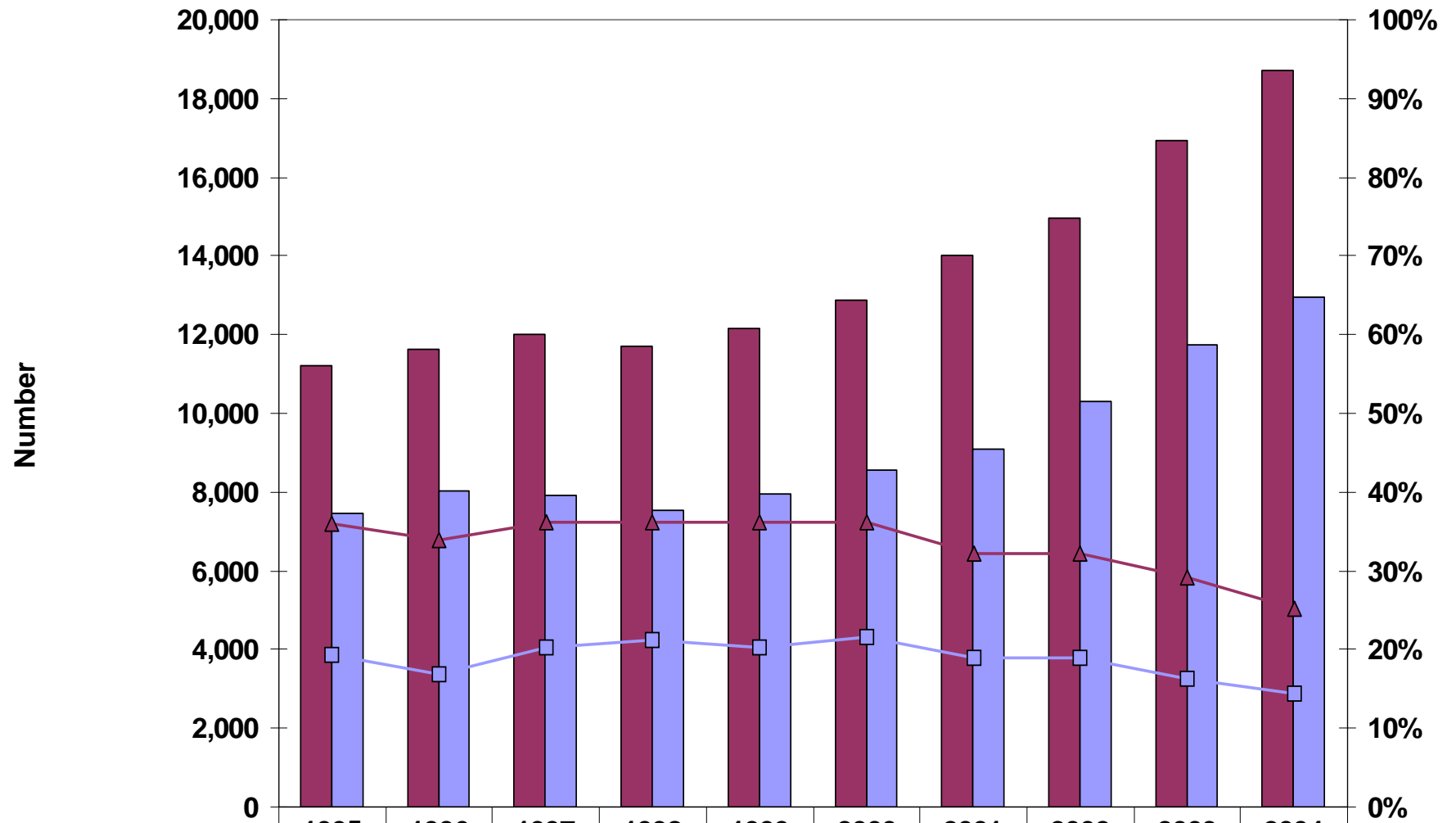
Cumulative Requested Amounts for Declined Proposals by Average Reviewer Score for FY 2005



NSF Funding Rate for Competitive Awards - Competitive Research Grants

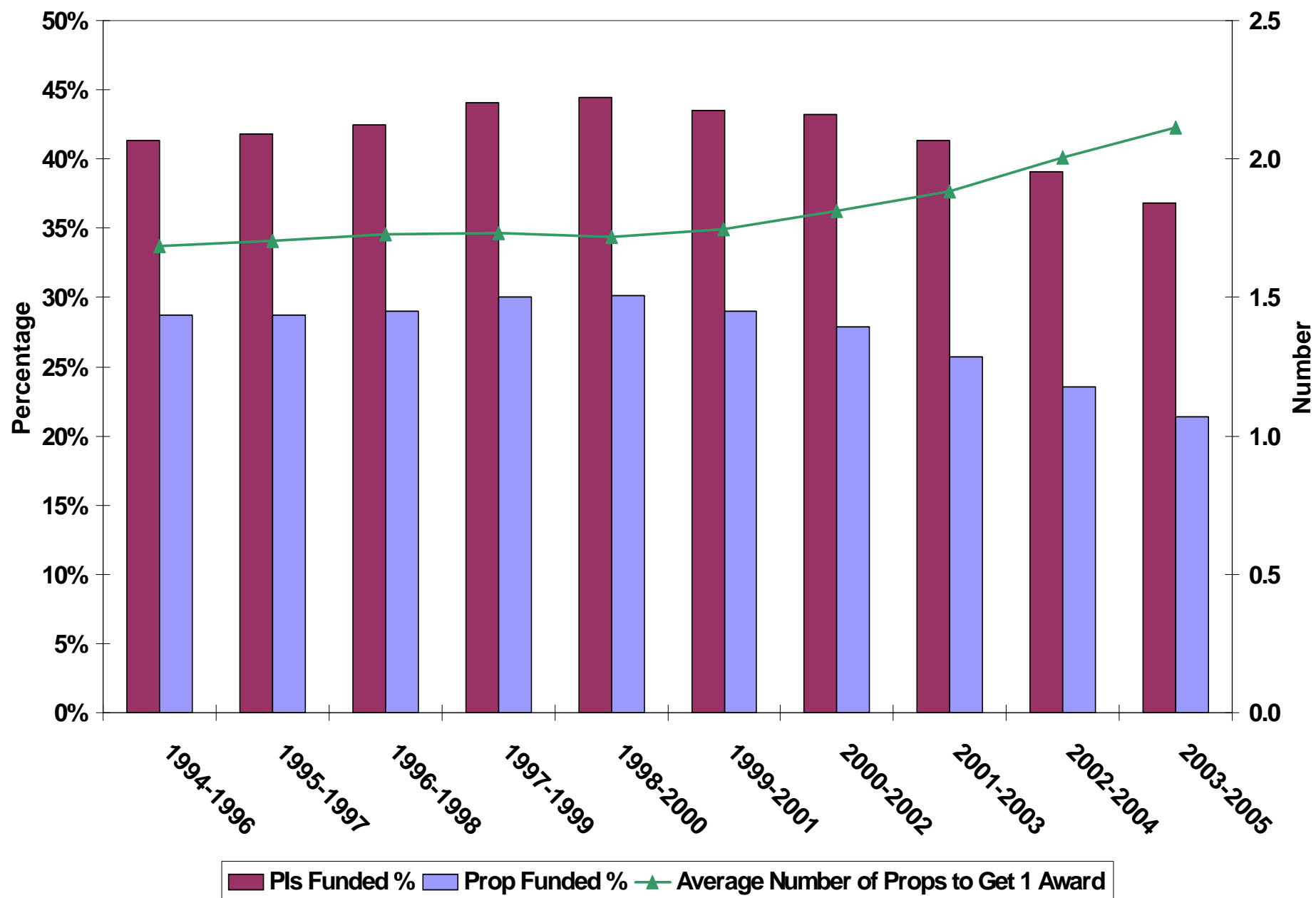


Research Grant Proposals by PI Type

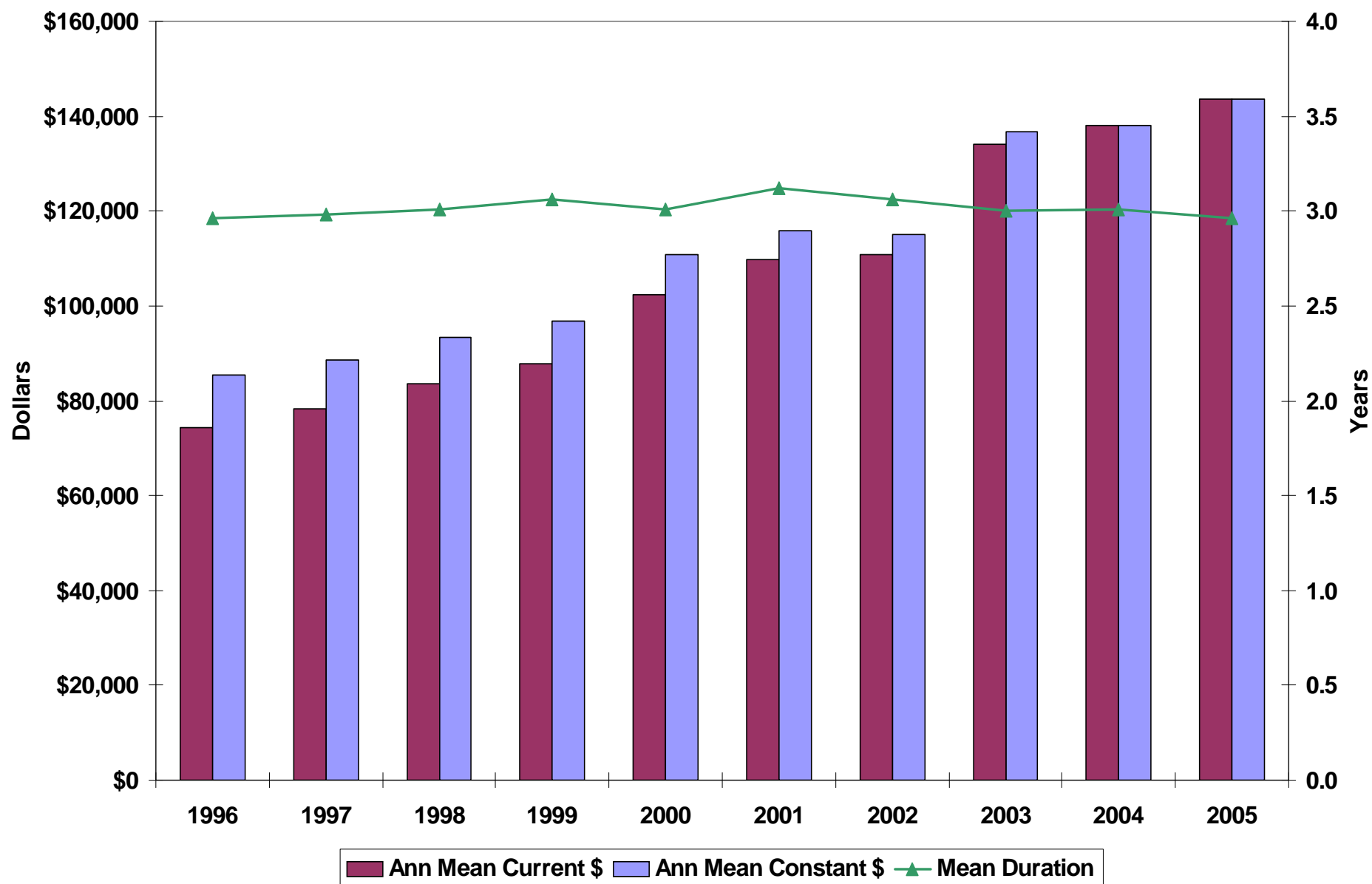


 Proposals - Prior PI	11,203	11,635	12,026	11,693	12,172	12,885	14,013	14,965	16,944	18,700
 Proposals - New PI	7,446	8,013	7,910	7,526	7,951	8,561	9,084	10,286	11,752	12,941
 Funding Rate - Prior PI	36%	34%	36%	36%	36%	36%	32%	32%	29%	25%
 Funding Rate - New PI	19%	17%	20%	21%	20%	22%	19%	19%	16%	14%

PI vs Proposal Funding Rate - Research Grants Based on 3 Year Intervals



NSF Competitive Award Size and Duration - Research Grants



*Based on estimated 2003-2004 Deflators



Key Documents

- FY 2007 NSF Budget Request
 - <http://www.nsf.gov/about/budget/fy2007>
- FY 2008 NSF Budget Request
 - <http://www.nsf.gov/about/budget/fy2008/index.jsp>
- Grant Proposal Guide (NSF 04-23)
 - http://www.nsf.gov/publications/pub_summ.jsp?ods_key=GPG
- Science and Engineering Indicators
 - <http://www.nsf.gov/statistics/seind06/>
- When in doubt:
 - <http://www.nsf.gov/>

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NSF Websites

National Science Board	http://www.nsf.gov/nsb/
Director/Deputy Director	http://www.nsf.gov/od/
Inspector General	http://www.nsf.gov/oig/
Office of Cyberinfrastructure	http://www.nsf.gov/dir/index.jsp?org=OCI
Office of International Science and Engineering	http://www.nsf.gov/div/index.jsp?div=OISE
Office of Equal Opportunity Programs	http://www.nsf.gov/od/oeo/index.jsp
Office of Legislative and Public Affairs	http://www.nsf.gov/od/lpa/index.jsp
Office of the General Counsel	http://www.nsf.gov/od/ogc/index.jsp
Office of Polar Programs	http://www.nsf.gov/dir/index.jsp?org=opp
Office of Integrative Activities	http://www.nsf.gov/od/oia/index.jsp
Biological Sciences	http://www.nsf.gov/dir/index.jsp?dir=BIO
Social, Behavioral & Economic Sciences	http://www.nsf.gov/dir/index.jsp?dir=SBE
Computer & Information Science & Engineering	http://www.nsf.gov/dir/index.jsp?dir=CISE
Education & Human Resources	http://www.nsf.gov/dir/index.jsp?dir=EHR
Engineering	http://www.nsf.gov/dir/index.jsp?dir=ENG
Budget, Finance & Award Management	http://www.nsf.gov/bfa/
Geosciences	http://www.nsf.gov/dir/index.jsp?dir=GEO
Information Resource Management	http://www.nsf.gov/oirm/
Mathematical & Physical Sciences	http://www.nsf.gov/dir/index.jsp?dir=MPS